

Abstract

A flowmeter includes: a transit time method unit having a sensor and a reception signal amplification control unit and a flow rate calculation unit which are
5 connected to the sensor via a sensor selector switch;
a pulse Doppler method having a reception signal amplification control unit and an integration calculation unit which are connected to the sensor; a
transmission/reception timing control unit common to
10 them; a measurement method selection control unit for
controlling switching between the transit time method unit and the pulse Doppler method unit, and parallel
operation; and a measurement value output selector switch
for selecting the output of the transit time method unit
15 and the pulse Doppler method unit. That is, the single
flowmeter can perform flow rate measurement by the
transit time method having no restriction on the
measurement range as well as by the pulse Doppler method
having an upper limit of the measurement range but
20 enabling a highly accurate measurement.